

CLAIMS

1. A simultaneous riveting system of flat surfaces for riveters, comprising riveting and upsetting mechanisms, characterized in that said mechanisms are star arrangement units placed along a certain number of radiuses, so that the unit of mechanisms of each radius must hammer in only those nails which have to be applied into the circular sector of the surface to be riveted, delimited by two successive radiuses.
2. The system according to claim 1, characterized in that the riveting mechanisms are fixed to an upper revolving table of the machine, and as many upsetting mechanisms are respectively fixed to a lower revolving table of the riveter, the surface to be riveted being placed between the two revolving tables.
3. The system according to claim 1, characterized in that each riveting mechanism comprises a nail collet which receives the nail from a selecting device and a cylinder's hammer or stem that presses the nail into the surface to be riveted.
4. The system according to claim 3, characterized in that the nail selecting device is made of a nail conveyor which sends the nail to the nail collet through a hose, by receiving it from a slanting guide that picks up the nails from a nails' magazine and passes them one by one to a reciprocating laminar disc which pushes them inside the conveyor.
5. The system according to claim 4, characterized in that the magazine is equipped with a fan-like movement, which supplies the conveyor's slanting guide with nails when it is tilted forward.
6. The system according to one or more of the previous claims, characterized in that the riveting and upsetting mechanisms' star arrangement is fit to carry out the riveting of perimetrical outlines, even multiple ones of any kind.
7. The system according to claim 6, characterized in that the perimetrical outlines are made of riveting concentric circles for reels' flanges for the winding of cables, ropes or similar elements.
8. The system according to one or more of the previous claims, characterized in that the surface to be riveted can be nailed with a single blow when the number of mechanism matches the number of nails to be applied.

9. The system according to one or more of the previous claims, characterized in that the riveting, upsetting mechanisms and the nails' magazines are driven by hydraulic cylinders, and that the nails' selectors are driven by pneumatic cylinders.